

**Jayadev Athreya**

University of Illinois Urbana-Champaign

will speak on

**Equidistribution and Counting for Polygonal Billiards**

ABSTRACT: We will survey some results on equidistribution and counting for billiards in Euclidean polygons. These results are united by the fact they use crucially a renormalization dynamics coming from the  $SL(2, \mathbf{R})$  action on the moduli space of holomorphic (and sometimes meromorphic) quadratic differentials on Riemann surfaces. This talk will include joint work with G. Forni, joint work with J. Chaika and S. Lelievre, and joint work with A. Eskin and A. Zorich.

MONDAY, FEBRUARY 4, 2013

LECTURE AT 4:00 PM

COFFEE, TEA, AND REFRESHMENTS FROM 3:40 PM

ROOM 617, WACHMAN BUILDING

DEPARTMENT OF MATHEMATICS